Product overview

Name: KC 12291 hydrochloride
Cat No: HB1019
Short description: Atypical voltage-gated sodium channel blocker
Biological description: Atypical voltage-gated sodium channel blocker. Reduces sustained Na+ channel current and inhibits peak current. Inhibits veratridine- and LPC-induced sustained sodium current contractures (IC_{50} values are 0.55 and 0.79 µM respectively). Shows cardioprotective, antiischemic and bradycardic actions.
Biological action: Blocker
Purity: >97%

Properties

Chemical name: 3,4-Dimethoxy-N-methyl-N-[3-[(5-phenyl-1,2,4-thiadiazol-3-yl)oxy]propyl]benzeneethanamine hydrochloride
Molecular Weight: 449.99

Chemical structure:

Molecular Formula: C_{22}H_{27}N_{3}O_{3}S.HCl
CAS Number: 181936-98-1
PubChem identifier: 22902387
SMILES: CN(CCCOC2=NSC(C3=CC=CC=C3)=N2)CCC1=CC=C(OC)C(OC)=C1.Cl
InChiKey: KIJPRQY8NQKUAU-UHFFFAOYSA-N

Storing and Using Your Product

Storage instructions: +4°C (desiccate)
Solubility overview: Soluble in water (25mM) or DMSO (50mM)
Important: This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

References for KC 12291 hydrochloride

**KC 12291: an atypical sodium channel blocker with myocardial antiischemic properties.**


PubMedID: 14978516
Pharmacological characterisation of sodium channels in sinoatrial node pacemaking in the rat heart.

PubMedID: 16368090

Anti-ischemic compound KC 12291 prevents diastolic contracture in isolated atria by blockade of voltage-gated sodium channels.

PubMedID: 12198320